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UNITED STATES DEPARTMENT OF COMMERCE

Patent and Trademark Office

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FIRST NAMED INVENTOR APPLICATION NO. **FILING DATE** ATTORNEY DOCKET NO. D

09/533,471

P 0 BOX 2463

BEVERLEE G STEINBERG SHELL OIL COMPANY

INTELLECTUAL PROPERTY

HOUSTON TX 77252-2463

03/23/00

SMITH

TH-1354(US)

MMC2/1025

EXAMINER

THOMAS, C

ART UNIT

PAPER NUMBER

2882

DATE MAILED:

10/25/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

		Annii adir - Al	
	•	Application No.	Applicant(s)
	Office Action Summan	09/533,471	SMITH, DAVID RANDOLPH
	Office Action Summary	Examiner	Art Unit
	The MAIL ING DATE AND THE	Courtney Thomas	2882
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the	correspondence address
THE I - External after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. It period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be ty within the statutory minimum of thirty (30) d will apply and will expire SIX (6) MONTHS fro	timely filed ays will be considered timely. In the mailing date of this communication.
1)🖂	Responsive to communication(s) filed on 23	March 2000 .	
2a)□		nis action is non-final.	
3)	Since this application is in condition for allows closed in accordance with the practice under	ance except for formal matters,	prosecution as to the merits is
Dispositi	on of Claims	Lx parte Quayle, 1955 C.D. 11,	453 O.G. 213.
	Claim(s) <u>1-9</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.			
	Claim(s) is/are allowed.		
	Claim(s) <u>1-9</u> is/are rejected.		
	Claim(s) 4 and 8 is/are objected to.		
8)[Claim(s) are subject to restriction and/o	r election requirement.	
Application	on Papers	·	
9)⊠ 7	The specification is objected to by the Examine	r.	
10)∐ T	he drawing(s) filed on is/are: a)☐ accep	oted or b) objected to by the Exa	aminer.
	Applicant may not request that any objection to the		
11) 🔲 T	he proposed drawing correction filed on	_ is: a)□ approved b)□ disappr	oved by the Examiner.
	If approved, corrected drawings are required in rep		
12) 🔲 T	he oath or declaration is objected to by the Ex	aminer.	
Priority u	nder 35 U.S.C. §§ 119 and 120		
13) 🔲 🛚	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).
a)[All b) Some * c) None of:		
	 Certified copies of the priority documents 	s have been received.	
:	Certified copies of the priority documents	s have been received in Applicat	tion No
	3. Copies of the certified copies of the prior application from the International Buree the attached detailed Office action for a list of the attached detailed Office action for a list of the attached detailed Office action for a list of the attached detailed Office action for a list of the attached detailed Office action for a list of the attached detailed Office action for a list of the attached detailed Office action for a list of the attached detailed Office action for a list of the prior action of the prior action for a list of the attached detailed Office action for a list of the	reau (PCT Rule 17.2(a)).	_
	cknowledgment is made of a claim for domestic		
a) 15) <u> </u>	☐ The translation of the foreign language procknowledgment is made of a claim for domestic	visional application has been red	ceived.
ttachment(
) Notice) Inform	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)
Patent and Trad O-326 (Rev.		tion Summary	Part of Paper No. 4

Art Unit: 2882

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: The term micomachines (i.e. p. 1, line 5; p 3. line 11) is ambiguous. The term is either a typo (i.e. micromachine) or needs further (scientific) explaining.

Appropriate correction is required.

Claim Objections

2. Claims 4 and 8 are objected to because of the following informalities: The term micomachines is ambiguous. The term is either a typo (i.e. micro-machine) or needs further (scientific) explaining. Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1 and 5 are rejected under 35 U.S.C. § 102(b) as being anticipated by McClain et al. (U.S. Patent 4,370,098)
- 5. As per claim 1, McClain et al. disclose a process for measuring and monitoring motor systems (i.e. abstract, column 1, lines 50-63) said process comprising: providing a motor system having at least one component selected from a stator and an armature (i.e. Fig. 1, #5; column 1, lines 25-33), said at least one component connected to at least one electrical wire (i.e. Fig. 1, #6, column 14, lines 61-68); incorporating at least one means for data measurement with said at least

Art Unit: 2882

one electrical wire (i.e. Fig. 1, #s 16-18); collecting data with said at least one means for data measurement (i.e. column 4, lines 25-38); and transferring said collected data to a data collection station (i.e. Fig. 1, #12).

As per claim 5, McClain et al. disclose a process for measuring and monitoring motor systems (i.e. abstract, column 1, lines 50-63), said process comprising: providing a motor system having at least one motor component selected from a stator and an armature (i.e. Fig. 1, #5; column 1, lines 25-33), said at least one component connected to at least one electrical wire (i.e. Fig. 1, #6, column 14, lines 61-68); providing at least one means for data measurement (i.e. Fig. 1, #s 16-18); connecting said at least one means for data measurement with said at least one motor component (i.e. Fig. 1); collecting data with said at least one means for data measurement (i.e. column 4, lines 25-38); and transferring said collected data to a data collection station (i.e. Fig. 1, #12).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 2-4 and 6-9 are rejected under 35 U.S.C. § 103(a) as being unpatentable over McClain et al. (U.S. Patent 4,370,098).
- 9. As per claims 2-4, McClain et al. do not explicitly disclose a process according to claim one, wherein a) means for measuring data is wrapped around said electrical wire b) means for measuring data is encapsulated and attached to said electrical wire by covering or coating the

Art Unit: 2882

electrical wire and the means for measuring data with an insulating material, and c) means for measuring data is selected from optic fibers, sensors, [micro-machines] and combinations thereof. However, McClain et al. teach a process for measuring and monitoring motor systems, in particular motor systems operating in remotely inaccessible locations (i.e. abstract, column 1, lines 50-63). It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the use of fiber optic (cables, wave guides, etc., or other functionally equivalent means) since it was known in the art that (i.e.) fiber optic (cables) could be used to transfer information (i.e. wavelength dependent) from relatively inaccessible / hazardous locations. Cables (optical, electrical, etc.) would require protective coating/ insulation depending on environmental conditions and/or transmission requirements. Accordingly, such modifications would have been obvious to one having ordinary skill in the art since the claimed limitations do not alter the scope (or spirit) of the disclosed invention (McClain et al.).

10. As per claims 6-9, McClain et al. do not explicitly disclose the arrangement of measuring means contained within a tube or wherein the tube is wound in a motor stator with electrical wire. Additionally, Mc.Clain et al. do not explicitly disclose the composition of measuring means selected from optic fibers, sensors, [micro-machines] and combinations thereof. However, McClain et al. teach a process for measuring and monitoring motor systems, in particular motor systems operating in remotely inaccessible locations (i.e. abstract, column 1, lines 50-63). It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the use of fiber optic (cables, wave guides, etc., or other functionally equivalent means) since it was known in the art that (i.e.) fiber optic (cables) could be used to transfer information (i.e. wavelength dependent) from relatively inaccessible / hazardous

Art Unit: 2882

locations. Accordingly, cables (optical, electrical, etc.) would require protective coating/

insulation depending on environmental conditions, or transmission requirements.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Courtney Thomas whose telephone number is (703) 306-0473.

The examiner can normally be reached on M - F (9 am - 5 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Robert Kim can be reached on (703) 305 3492. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 305-3594 for regular

communications and (703) 305-3594 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0530.

Courtney Thomas

October 22, 2001

ROBERT H. KIM
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

Page 5